

REMARKS

Applicants respectfully request favorable reconsideration of this application, as amended.

Applicant notes with appreciation the indication of allowable subject matter with respect to Claims 2 and 9.

Claims 1, 3–8, 10 and 11 were rejected under 35 U.S.C. § 102(b) as being anticipated by William (GB 2 259 430 A). Claims 2 and 9 were objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. Without acceding to the rejection under § 102, Claims 6 and 11 have been amended to more clearly recite certain features of the claimed invention. No new matter has been added, and support for these amendments may be found within the Specification, for example, at Page 22, lines 2–24.

Claim 1 is directed to a radio communication system and recites, *inter alia*, a plurality of transmitters each having at least one antenna for transmitting identical signals with the same frequency band, where the signals transmitted from at least one antenna of one transmitter are delayed an arbitrary delay time so that output power, which is different from at least one delay output in the other transmitters, is set in each of the plurality of transmitters. Claim 8 is directed to a transmitter and recites similar subject matter. Applicant respectfully submits that none of the cited references, taken either singly or in combination, teaches or suggests all of the features recited by Claims 1 and 8.

William discloses a radio receiver and transmitter that uses antenna diversity to improve signal reception and reduce fading effects. William's diversity transmitter 50 includes a simple splitter 51, a main transmitter antenna 52, a diversity transmitter antenna 53 and a delay element 54 connected between the splitter 51 and the diversity antenna 53. The primary signal is transmitted using main antenna 52, while the delayed signal is transmitted using diversity antenna 53. See, e.g., FIG. 5; Page 8, lines 3–21. As such, William's transmitter is remarkably similar to the conventional prior art system described on pages 3 and 4, and depicted within FIG. 13, of the present application. Applicant submits that William fails to teach or suggest several features recited by Claims 1 and 8.

William fails to disclose the use of more than one transmitter that transmits both a primary signal and a delayed signal. Instead, William teaches that a single transmitter is used. *See, e.g.,* Page 2, lines 14–25. Furthermore, William fails to teach or suggest that signals transmitted from an antenna of one transmitter are delayed an arbitrary delay time so that output power, which is different from at least one delay output in the other transmitters, is set in each of the plurality of transmitters. Rather, William discloses that signals transmitted from antennas 52 and 53 of transmitter 50 are delayed an arbitrary delay time, and that two power amplifiers are provided, one for each transmitted signal. *See, e.g.,* FIG. 5; Page 3, lines 5–6; Page 8, lines 16–17. Moreover, none of the remaining references, taken either singly or in combination, teaches or suggests the features recited by Claims 1 and 8. Accordingly, Claims 1 and 8 are allowable over the cited references. Claims 2 and 3, depending from Claim 1, and Claim 9, depending from Claim 8, are also allowable, at least for the reasons discussed above.

Claim 4 is directed to a radio communications system and recites, *inter alia*, a plurality of transmitters each having at least one antenna for transmitting identical signals with the same frequency band, where the signals supplied to the antennas are obtained by differently delaying modulated signals and carrying out weighting synthesization on the signals, at least one of the delay amount and the weighting factor in each of the transmitters is set to a value different from the other transmitters. Claim 10 is directed to a transmitter and recites similar subject matter. Applicant respectfully submits that none of the cited references, taken either singly or in combination, teaches or suggests all of the features recited by Claims 4 and 10.

As discussed with respect to Claim 1, William fails to disclose the use of more than one transmitter that transmits both a primary signal and a delayed signal. Instead, William teaches that a single transmitter is used. Furthermore, William fails to teach or suggest that signals supplied to the antennas are obtained by differently delaying modulated signals and carrying out weighting synthesization on the signals, so that at least one of the delay amount and the weighting factor in each of the transmitters is set to a value different from the other transmitters. Rather, William merely discloses that signals transmitted from antennas 52 and 53 of transmitter 50 are delayed an arbitrary delay time. Moreover, none of the remaining references, taken either singly or in combination, teaches or suggests the features recited by Claims 4 and 10. Accordingly, Claims 4 and 10 are allowable over the cited references. Claim 5, depending from Claim 4, is also allowable, at least for the reasons discussed above.

Claim 6 is directed to a radio communications system and recites, *inter alia*, a plurality of transmitters each having at least one antenna for transmitting identical signals with the same frequency band, where signals supplied to the antennas are obtained by differently delaying modulated signals and carrying out amplitude regulation on the signals, so that at least one of the delay amount and the value of amplitude regulation is set to different values in each of the antennas. Claim 11 is directed to a transmitter and recites similar subject matter. Applicant respectfully submits that none of the cited references, taken either singly or in combination, teaches or suggests all of the features recited by Claims 6 and 11.

As discussed with respect to Claim 1, William fails to disclose the use of more than one transmitter that transmits both a primary signal and a delayed signal. Instead, William teaches that a single transmitter is used. Furthermore, William fails to teach or suggest that signals supplied to the antennas are obtained by differently delaying modulated signals and carrying out amplitude regulation on the signals, so that at least one of the delay amount and the value of amplitude regulation is set to different values in each of the antennas. Rather, William merely discloses that signals transmitted from antennas 52 and 53 of transmitter 50 are delayed an arbitrary delay time. Moreover, none of the remaining references, taken either singly or in combination, teaches or suggests the features recited by Claims 6 and 11. Accordingly, Claims 6 and 11 are allowable over the cited references. Claim 7, depending from Claim 6, is also allowable, at least for the reasons discussed above.

In view of the amendments presented herein, Applicants respectfully submit that this application is in condition for allowance and should now be passed to issue. A Notice of Allowance is respectfully solicited.

Alternatively, Applicants submit that this amendment places the case in better form for appeal and should be entered accordingly.

If any extension of time is required in connection with the filing of this paper and has not been requested separately, such extension is hereby requested.

The Commissioner is hereby authorized to charge any fees and to credit any overpayments that may be required by this paper under 37 C.F.R. §§ 1.16 and 1.17 to Deposit Account No. 02-2135.

Respectfully submitted,

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